ABSTRACT

A method and system are provided for constructing a virtual three-dimensional

5   model of an object using a data processing system, and at least one machine-readable

memory accessible to the data processing system.   A set of at least two digital three-

dimensional frames of portions of the object are obtained from a scanner or other source

comprising a set of point coordinates in a three dimensional coordinate system providing

differing information of the surface of the object. The frames provide a substantial

10   overlap of the represented portions of the surface of the object, but do not coincide

exactly. Data representing the set of frames are stored in the memory and processed by

the data processing system so as to register the frames relative to each other to thereby

produce a three-dimensional virtual representation of the portion of the surface of the

object covered by the set of frames.

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